

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANTS
PTO FORM 1449**

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Applicant(s) **ROTHMAN, et al.**

Filing Date
October 26, 2000

Group
1652

U. S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER'S INITIALS		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
8/5		Kim et al., "Noninvasive measurement of the pH of the endoplasmic reticulum at rest and during calcium release", Proc. Nat'l. Acad. Sci, USA, (March 1998) vol. 95, pp. 2997-3002
		Wilson et al., "pH-dependent Binding of KDEL to Its Receptor <i>in Vitro</i> ", Journal of Biol. Chem. (1993), vol. 268, no. 10, pp. 7465-7468
		Townsley et al., "Mutational analysis of the human KDEL receptor: distinct structural requirements for Golgi retention, ligand binding and retrograde transport" EMBO Journal (1993) vol. 12, no. 7, pp. 2821-2829
		Lewis et al., "Ligand-Induced Redistribution of a Human KDEL Receptor from the Golgi Complex to the Endoplasmic Reticulum" Cell (1992), vol. 68, pp. 353-364
		McCoy et al., "Hydrophobic side-chain size is a determinant of the three-dimensional structure of the p53 oligomerization domain" EMBO Journal (1997), vol. 16, pp. 6230-6236
		Hüttelmaier et al., "Characterization of two F-actin-binding and oligomerization sites in the cell-contact protein vinculin", Eur. Journal Biochem. (1997), vol. 247, no. 3, pp. 1136-1142
		Song et al., Mutational Analysis of the Properties of Caveolin-1, Journal of Biological Chem. (1997), vol. 272, no. 7, pp. 4398-4403
		Jousset et al., "A domain of TEL conserved in a subset of ETA proteins defines a specific oligomerization interface essential to the mitogenic properties of the TEL-PDGFR β oncoprotein", EMBO Journal (1997) vol. 16, no. 1, pp. 69-82
		Orlinick et al., "Separate domains of the human Fas Ligand dictate self-association and receptor binding", J. Biol. Chem (December 19, 1997), vol. 272, no. 51, pp. 32221-32229
		Efimov et al., "The thrombospondin-like chains of cartilage oligomeric matrix protein are assembled by a five-stranded helical bundle between residues 20 and 83. FEBS Lett (1994) vol 341 pp 54-58
		Terskikh et al., "Peptabody": A new type of high avidity binding protein", Proc. Natl. Acad. Sci. USA (March 1997) vol. 94, pp. 1663-1668
		Srivastava et al., "Heat shock protein-peptide complexes in cancer immunotherapy", Current Bio. Ltd. (1994) vol. 6, pp. 728-732
✓		Blachere et al., "Heat shock protein-based cancer vaccines and related thoughts on immunogenicity of human tumors", Acad. Press Ltd. (1995) vol. 6, pp. 349-355

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5/15/03

EXAMINER'S INITIALS		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
<i>JS</i>		Little et al., 1994, <i>The Glucose-Regulated Proteins (GRP78 and GRP94): Functions, Gene Regulation, and Applications</i> , Crit. Rev. Eukaryot. Gene Expr. 4:1-18.
		Udono et al., "Comparison of Tumor-Specific Immunogenicities of Stress-Induced Proteins gp96, hsp90, and hsp70 ¹ ", <i>Journal of Immunology</i> , 5398-5403 <i>(1994) vol 152, pp 85</i> <i>5/15/03</i>
		Srivastava, "Peptide-Binding heat shock proteins in the endoplasmic reticulum: role in immune response to cancer and in antigen presentation", Acad. Press Inc. (1993), vol. 62, pp.153-177
		DeNagel and Pierce, et al., 1993, "Heat Shock Proteins in Immune Responses", Critical Reviews in Immunology 13:71-81.
		Wang, "Tumor antigens discovery: perspectives for cancer therapy", Mol. Med. (November 1997), vol. 3, no. 11, pp. 716-731
		Van den Eynde et al, "T cell defined tumor antigens", Current Biol. Ltd (October 1997), vol. 9, no. 5, pp. 684-693
<i>JS</i>		Slingluff, "Tumor antigens and tumor vaccines: peptides as immunogens", Sem. In Surg. Oncol. (1996) , vol. 12, pp. 446-453

EXAMINER	<i>Singh</i>	DATE CONSIDERED	<i>5/15/03</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449	ATTY DOCKET NO. 11746/46603	SERIAL NO. 09/696/872
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U. S. PATENT DOCUMENTS

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85	5,824,500	October 20, 1998	Bandman et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
85	WO 97/06828	2/27/97	PCT				
	WO 98/18943	5/7/98	PCT				

OTHER DOCUMENTS

EXAMINER'S INITIALS	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
85	Arap et al., "Cancer treatment by targeted drug delivery to tumor vasculature in a mouse model", Science (1998), vol. 279, pp. 377-380
	Ausubel, "Protein Expression", Current Protocols in Molecular Biology (1997) John Wiley & Sons, Inc. NY, Chapter 16 Introduction
	Balicki et al., "Gene therapy of human disease", Medicine (2002), vol. 81, pp. 69-86
	Benaroudj et al., "Self Association of the Molecular Chaperone HSC70", Biochemistry (1995), vol. 34, pp. 15282-15290
	Bole et al. "Posttranslational association of immunoglobulin heavy chain binding protein with nascent heavy chains in nonsecreting and secreting hybridomas", J. Cell. Biol. (1986), vol. 102, pp. 1558-1566
	Bornstein, "Thrombospondins: structure and regulation of expression", FASEB J. (1992), vol. 6, pp. 3290-3299
	Cohen et al., "HIV-AIDS in 1998 - Gaining the Upper Hand?", JAMA (1998), vol. 280, no. 1, pp. 87-88
	Edgington, "Therapeutic applications of heat shock proteins", Bio/Technology (Dec. 1995), vol. 13, pp. 1442-1444
	Feldweg et al., "Molecular heterogeneity of tumor rejection antigen/heat shock protein GP96", Int. J. Cancer (1995), vol. 63, pp. 310-314

Supp 9/18/03

EXAMINER'S INITIALS	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
85	Flynn et al., "Peptide-binding specificity of the molecular chaperone BiP", Nature (1991), vol. 353, pp. 726-730
	Flynn et al., "Peptide binding and release by proteins implicated as catalysts of protein assembly", Science (1989), vol. 245, pp. 385-390
	Freeman et al., "The human cytosolic molecular chaperones hsp90, hsp70 (hsc70) and hsc71 have distinct roles in recognition of a non-native protein and protein refolding", EMBO J. (1996), vol. 15, pp. 2969-2979
	Hartl, "Molecular chaperones in cellular protein folding", Nature (1996), vol. 381, pp. 571-580
	Hendrick et al., "Molecular chaperone functions of heat-shock protein", Annu. Rev. Biochem (1993), vol. 62, pp. 349-384
	Lammert et al., "Protein disulfide isomerase is the dominant acceptor for peptides translocated into the endoplasmic reticulum", Eur. J. Immunol. (1997), vol. 27, pp. 1685-1690
	Learnon et al., "Delivery of macromolecules into living cells: A method that exploits folate receptor endocytosis", Proc. Nat'l. Acad. Sci. (1991), vol. 88, pp. 5572-5576
	Lewis and Pelham, "Sequence of a Second Human KDEL Receptor", J. Mol. Biol. (1992), vol. 226, pp. 913-916
	Li et al., "Tumor rejection antigen gp96/gp94 is an ATPase: implications for protein folding and antigen presentation", EMBO J. (1993), vol. 12, pp. 3143-3151
	Lindquist et al., "The heat-shock proteins", Annu. Rev. Genet (1988), vol. 22, pp. 631-677
	Lowrie et al., "Mycobacterium leprae hsp65 vaccinates mice against tuberculosis when expressed from the cloned gene in transplanted bone marrow cells" J. Cell. Biochem. (1995), Supp. Vol. 153, p. 220 Abstract B6-316
	Lowrie et al., "Towards a DNA vaccine against tuberculosis", Vaccine (1994), vol. 12, p. 1537-1540
	Lukacs et al., "Tumor cells transfected with a bacterial heat-shock gene lose tumorigenicity and induce protection against tumors", J. Exp. Med. (1993), vol. 178, pp. 343-348
	Malashkevich et al., "The crystal structure of a five stranded coiled coil in COMP: a prototype ion channel?", Science (1996), vol. 274, pp. 763-765
	Mazzarella et al., "ERp72, an abundant luminal endoplasmic reticulum protein, contains three copies of the active site sequences of protein disulfide isomerase", J. Biol. Chem. (1990), vol. 265, pp. 1094-1101
	Melnick et al., "The endoplasmic reticulum stress protein GRP94, in addition to BiP, associates with unassembled immunoglobulin chains", J. Biol. Chem. (1992), vol. 267, pp. 21303-21306
	Melnick et al., "Sequential interaction of the chaperones BiP and GRP94 with immunoglobulin chains in the endoplasmic reticulum", Nature (1994), vol. 370, pp. 373-375
	Miesenböck and Rothman, "The capacity to retrieve escaped ER proteins extends to the trans-most cisterna of the golgi stack", J. Cell. Biol. (1995), vol. 29, pp. 309-319
	Multhoff et al., "Heat shock proteins and the immune response", Ann. NY Acad. Sci. (1998), vol. 851, pp. 86-93
	Munro and Pelham, "A c-terminal signal prevents secretion of luminal ER proteins", Cell (1987), vol. 48, pp. 899-907
	Nielsen et al., "Isolation of an immunodominant viral peptide that is endogenously bound to the stress protein GP96/GRP94", Proc. Natl. Acad. Sci. USA (1996), pp. 6135-6139
	Pelham, "Evidence that luminal ER proteins are sorted from secreted proteins in a post-ER compartment", EMBO J. (1988), vol. 7, pp. 913-918
	Piscitelli, "Immune-based therapies for treatment of HIV infection", The Annals of Pharmacotherapy (1996), vol. 30, pp. 62-66

8/18/03

EXAMINER'S INITIALS	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
JS	Qabar et al., "Thrombospondin 3 is a pentameric molecule held together by intrachain disulfide linkage involving two cysteine residues", J. Biol. Chem. (1995), vol. 270, pp. 12725-12729
	Ramankishnan et al., "Conformation-defective herpes simplex virus 1 glycoprotein B activates the promoter of the gp94 gene that codes for the 94-kD stress protein in the Endoplasmic reticulum" DNA and Cell Biol. (1995), vol. 14, pp. 373-384
	Retzlaff et al., "Bacterial heat shock proteins directly induce cytokine mRNA and interleukin-1 secretion in macrophage cultures", Infect. Immun. (1994), vol. 62, pp. 5689-5693
	Schaiff et al., "HLA-DR associates with specific stress proteins and is retained in the endoplasmic reticulum in invariant chain negative cells", Exp. Med. (1992), vol. 176, pp. 657-666
	Semenza and Pelham, "Changing the specificity of the sorting receptor for luminal endoplasmic reticulum proteins", J. Mol. Biol. (1992), vol. 224, pp. 1-5
	Silva et al., "A single mycobacterial protein (hsp65) expressed by a transgenic antigen-presenting cell vaccinates mice against tuberculosis", Immunology (1994), vol. 82, pp. 244-248
	Singh-Jasuja et al., "The role of heat shock proteins and their receptors in the activation of the immune system", Biol. Chem. (2001), vol. 382, pp. 629-636
	Slepushkin et al., "Sterically stabilized pH-sensitive liposomes", J. Biol. Chem. (1997), vol. 272, pp. 2382-2388
	Srivastava et al., "Stress-induced proteins in immune response to cancer", Curr. Topics Microbiol (1991), vol. 167, pp. 109-123
	Suzuki et al. "Regulating the retention of t-cell receptor α chain variants within the endoplasmic reticulum: Ca^{2+} -dependent association with BiP" J. Cell. Biol. (1991), vol. 114, pp. 189-205
	Verma et al. "Gene Therapy - Promises, Problems and Prospects" Nature (1997), vol. 389, pp. 239-242
	Wearsch et al., "Endoplasmic reticulum chaperone GRP94 subunit assembly is regulated through a defined oligomerization domain", Biochem. (1996), vol. 35, pp. 16760-16769
	Welsh et al. "Small Heat-shock protein family: function in health and disease", Ann NY Acad. Sci. (1998), vol. 851, pp. 28-35
	Wlech et al., "Hsp90 chaperones protein folding <i>in vitro</i> ", Nature (1992), vol. 358, pp. 169-170
	Zufferey et al., "Multiple attenuated lentiviral vector achieves efficient gene delivery <i>in vivo</i> ", Nature Biotechnology (1997), vol. 15, pp. 871-875

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